

Microfabrication techniques are generally known in the art using tools developed by the semiconductor industry to miniturise electronics, and it is possible to fabricate intricate fluid systems with channel sizes as small as a micron. These devices can be mass-produced inexpensively and are expected to soon be in widespread use for simple analytical tests. See, e.g., Ramsey, J.M. et al. (1995), "Microfabricated chemical measurement Systems," Nature Medicine 1:1093-1096; and Harrison, D.J. et al. (1993), "Micromachining a minaturized capillary electrophoresis-based chemical analysis system on a chip," Science 261:895-897.

b2 Page 3, line 6, insert SUMMARY OF THE INVENTION

b3 Page 7, line 10, insert BRIEF DESCRIPTION OF THE DRAWINGS

D Page 7, after line 30, insert ~~Figure 7a is a diagrammatic representation of~~

apparatus for diffusive mixing by the contact of two flows in a mixing channel.

b3 ~~Figures 6a and 7a are representations~~
D ~~Figure 7b is a diagrammatic representation of apparatus for diffusive mixing by~~
the contact of two flows in a mixing channel with allowance for parting product flows.

b4 Page 8, before line 1, insert DETAILED DESCRIPTION OF THE INVENTION

Page 13, please replace the paragraph at lines 11-18 with the following replacement paragraph.

b4 A diagrammatic representation of apparatus for diffusive mixing by the contact of two flows in a mixing channel is shown in Figure 7a with relevant features indicated.

E Page 14, please replace the paragraph at lines 3-15 with the following amended paragraph.